DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

Bay Area Branch
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Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Pursell, Gary
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-002208
Date Inspected: 15-May-2010

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 700
OSM Departure Time: 1900
Location: Shanghai, China

Quality Control Contact: Mr. Don Walton

Quality Control Present: ☑ Yes ☐ No

Material transfer:	☐ Yes	☐ No	☑ N/A	**Sampled Items:**	☐ Yes	☐ No	☑ N/A
Stock Transfer:	☐ Yes	☐ No	☑ N/A	**OK to Cut:**	☐ Yes	☐ No	☑ N/A
Rebar Test Witness:	☐ Yes	☐ No	☑ N/A	**Delayed/Cancelled:**	☐ Yes	☑ No	☐ N/A

Other: Coating Inspection
Bridge No: 34-0006
Bid Item: 77, 78, 79

Component: See Below
Lot No: B #204

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE II coating inspector, Mr. Baskar Govindarajan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE II coating inspector observed the following:

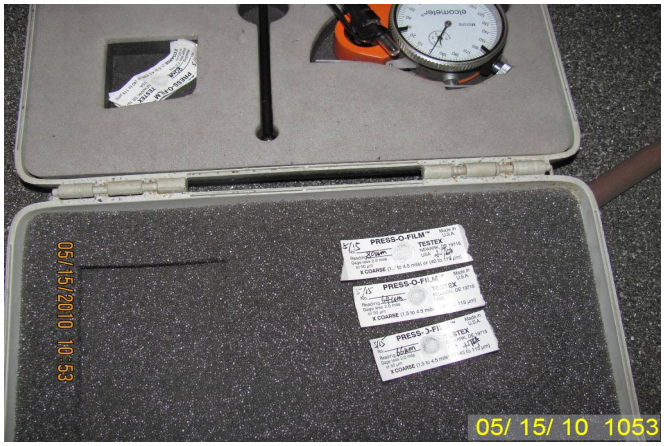
1. An inspection was requested on the Tower Bearing block 88 nos (A 30, A31, A32, A33, A36, A37- 2 nos each, A34- 4 nos, A35- 20 nos, A40-43 nos and A41- 5 nos) for surface preparation inspection for the application of Interzinc 22 vide request no. T 390 at Blasting shop 2. This Caltrans inspector observed, ABF inspectors Mr. Yui and Mr. Shi Stone performing said inspection check . Due to deep dent upto 4 mm, two pieces found rejected by ABF Inspectors which was marked for weld repairs. The Profile found to be 64 to 80um which is acceptable as per contract documents.(Photo of profile observed by coarse grain method is attached) Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents. International protective coatings technical service representative Mr. Li peng was found present during the course of this inspection process.

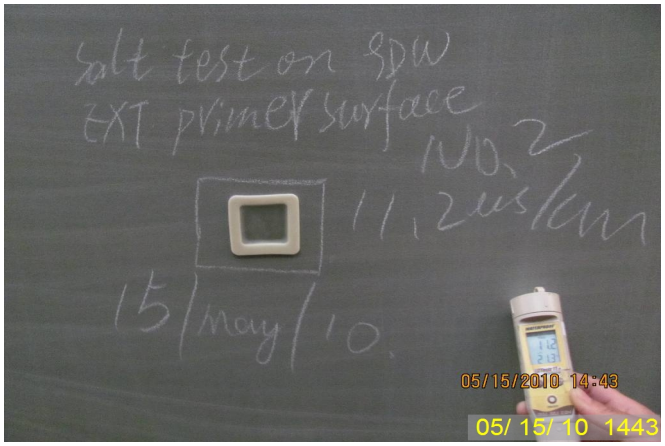
2. An inspection was requested on the OBG Segment 9DW for adhesion test of External surfaces at the painting workshop no. 1, vide request no. 3312 . This Caltrans inspector observed, ABF inspectors Mr. Sun performing the said inspection. The adhesion test was carried out in 6 places and the result found to be in the range of 7.81 Mpa with 90% cohesion failure to 12.34Mpa which is acceptable as per contract documents. International protective coatings technical service representative Mr. Li peng was found present during the course of this inspection process.

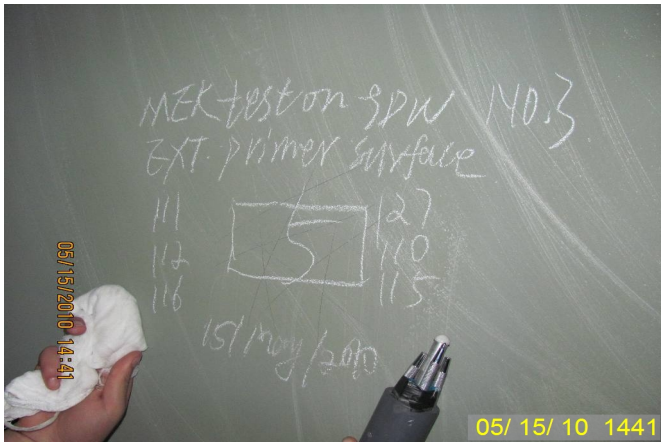
3. An inspection was requested on the Tower external handrail -21 nos and splices for ladder -103 nos for surface preparation inspection before Dipping into the Zinc pot, vide request no. T 391 at Galvanizing workshop . This Caltrans inspector observed, ABF inspectors Mr. Sun and Mr. Shi stone performing said inspection check . This was found accepted by ABF Inspectors. International protective coatings technical service representative was not found present during the course of this inspection process.

4. An inspection was requested on the OBG external Segment 9DW external surfaces for DFT Check, Residual chlorides test and MEK test, vide request no. 3313 at Painting workshop no. 1 . This Caltrans inspector observed, ABF inspectors Mr. Sun , Mr. Wei and Mr. Shi stone performing said inspection check . This was found accepted by ABF Inspectors for Mist coat. The results of MEK test found to be in the Grade of 5 which is acceptable as per contract documents. The results of X3 Salt test value found to be in the range of 6.8 to 11.2 us/cm which was conducted in 3 places of the external areas of the segment. The ambient conditions were monitored and found to be 6.3 deg. above dew point. The relative humidity found to be 65.3%. International protective coatings technical service representative Mr. Li peng was found present during the course of this inspection process. The photograph of Salt test and MEK test conducted in segment 9 DW is attached.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.







SOURCE INSPECTION REPORT

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Summary of Conversations:

No applicable conversations

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Skyler Guest (15000422360), who represents the Office of Structural Materials for your project.

Inspected By:	Baskar,Govindarajan	Quality Assurance Inspector
Reviewed By:	Clifford,William	QA Reviewer